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PATENT COOPERATION TREATY

PCT



0 5 OCT 2005	(Chapter II of the Pa	tent Cooperation Tre	aty)		
O PCT	(PCT Article	e 36 and Rule 70)			
Applicant's or agent's file reference					
CPS41234	FOR FURTHER A	CHON	See Form PCT/IPEA/416		
International application No.	International filing d	ate (day/month/year)	Priority date (day/month/year)		
PCT/CN2004/000458	09.MAY.20	004 (09.05.2004) 10.MAY.2003 (10.05.2003)			
International Patent Classification (IPC	or national classification	and IPC			
IPC7: C12N15/86, C12N15/12, A61	K48/00. A61P17/00				
Anational			· · · · · · · · · · · · · · · · · · ·		
Applicant PENG, Zhaohui et al.					
	limination and	and animalished her thin I'm	ternational Preliminary Examining Author		
This report is the international pre under Article 35 and transmitted to			containing Fremmary Examining Auto-		
2. This REPORT consists of a total o	f 4	sheets, including this cover sheet.			
This report is also accompanied by	ANNEXES, comprising:				
			sheets, as follows:		
	tion, claims and/or drawin	gs which have been am	ended and are the basis of this report and 70.16 and Section 607 of the Administrat		
			ers contain an amendment that goes beyontern 4 of Box No. and the Supplement		
		hereto, in electronic form	n only, as indicated in the Supplemental E		
4. This report contains indications re	lating to the following iter	ns:			
Box No. 1 Basis of the	report				
Box No. II Priority					
Box No. III Non-establic	ox No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unit	Lack of unity of invention				
🔀 Box No. V Reasoned sta	tement under Article 35(2)	with regard to novelty, i	inventive step or industrial applicability;		
citations and	explanations supporting st	uch statement			
Box No. VI Certain doca	iments cited				
☐ Box No. VII Certain defer	ets in the international app	lication	•		
Box No. VIII Certain obs	ervations on the internation	nal application			
Date of submission of the demand		Date of completion of	this report		
14.Sep.2004(14.09.2004)		1	5.Sep-2005(06.09;2005)		
Name and mailing address of the IPEA/		Authorized officer			
The State Intellectual Property Off			KE.Ke		

Telephone No. (86-10):62085090

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Facsimile No. 86-10-62019451
Form PCT/IPEA/409 (cover sheet) (April 2005)

6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Interna, anal application No. PCT/CN2004/000458

Statement:			_
Novelty (N)	Claims	4-8	YES
	Claims	1-3,9	NO
Inventive step (IS)	Claims		YES
	Claims	1-9	NO
	Claims	1-9	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

The document as followed is cited by the report:

Document 1(D1):THE JOURNAL OF GENE MEDICINE 2000,2 (6), 426-432,

Toshiro Shirakawa et al: P53 Adenoviral vector (Ad-CMV-p53) induced prostatic growth inhibition of primary cultures of human prostate and an experimental rat model.

Document 2(D2):CN1401778A 12.03.2003

About novelty:

D1 has disclosed that the recombinant of adenoviral vector and p53 can be used in the treatment of prostatic hyperplasia. Prostatic hyperplasia is a kind of proliferative disease. So the technical solution of claim 1 has been disclosed by D1. Claim 1 don't appear to be novel and don't appear to meet the criteria mentioned in article 33(2) PCT.

Claims 2,3,9 are dependent claims of claim 1. The additional technical features of these claims have been disclosed in D1(such technical features lie in "production of recombinant adenoviruses" and "in vivo experimental design" of "materials and methods" of D1). Thus claims 2,3,9 don't appear to be novel and don't appear to meet the criteria mentioned in article 33(2)PCT.

The technical solutions of claims 4-8 aren't disclosed. Thus, claims 4-8 possess novelty and meet the criteria mentioned in article 33(2)PCT.

About inventiveness:

Claims 4,5 are dependent claims of claim 1. The additional technical features of them are the products defined by the preparation method. Though D1 didn't disclosed the preparation method of the recombinant in detail, D2 disclosed the recombinant which was prepared by the same method as that of claims 4-5 (see the claims). There is no substantive difference between the products of D1 and D2. It's easy for the person skilled in the relevant field of technology to realize that such similar products have the same use. So it's obvious for the person skilled in the relevant field of technology to obtain the technical solutions of claims 4-5 through combination of D1 and D2. Thus, claims 4 and 5 don't appear to be inventive and don't appear to meet the criteria mentioned in article 33(3)PCT.

Claims 6-8 are dependent claims of claim 1. The additional technical features of them are the types of proliferative diseases. Because these proliferative diseases have similar pathogenesis with prostatic hyperplasia, the technical solutions of claims 6-8 are obvious to the person skilled in the relevant field of technology in light of D1. Claims 6-8 don't appear to be inventive and don't appear to meet the criteria mentioned in article 33(3)PCT.

About industrial applicability:

Claims 1-9 can all be used in treatment of diseases and possess industrial applicability. They all meet the criteria mentioned in article 33(4)PCT.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Internal. al application No. PCT/CN2004/000458

Box No. I Bas	sis of the report .			
1. With regard	to the language, this report is based on:			
	ternational application in the language in which	it was filed		
1	slation of the international application into		which is the language of a	
	ion furnished for the purposes of:	,		
	emational search (Rules 12.3(a) and 23.1(b))			
	lication of the international application (Rule 1)	2.4(a))		
	mational preliminary examination (Rules 55.26			
	, , , , , , , , , , , , , , , , , , , ,	-, c. 50.5 (2),		
to the receive annexed to th		icle 14 are referred to in this repor	t sheets which have been furn t as "originally filed" and are	ished not
	rnational application as originally filed/furnishe	d		
	emption:		•	
pages	1.10		as originally filed/furnished	1
pagės • pages •	1-12	received by this Authority on	19.Nov.2004	
pages		received by this Authority on		
🔀 the claims:				
claims			as originally filed/furnish	ed l
claims '		as amended (together wi	th any statement)under Article	
claims *	1-9	received by this Authority on	19.Nov.2004	11)
claims		received by this Authority on		
the drawing pages pages	1-11	received by this Authority on	as originally filed/furnished 19.Nov.2004	-eri t
pages *		_ received by this Authority on _		
a sequence	listing and/or any related table(s) - see Supplem	nental Box Relating to Sequence Li	stina	
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3. The amend	lments have resulted in the cancellation of:		•	
	description, pages			
24	claims, Nos.			- 1
	drawings, sheets/figs			
	sequence listing (specify):			
	table(s) related to sequence listing (specify):			li.
since they		ents annexed to this report and liste re as filed, as indicated in the Suppl	emental Box (Rule 70.2(c)).	<u> </u>
		<u> </u>	··· · ·····	
	lrawings, sheets/figs			
	equence listing (specify):			101
	table(s) related to sequence listing (specify):			ľ
ij item 4 applie	s, some or all of those sheets may be marked "s	superseded."		

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Inter. nal application No.

PCT/CN2004/000458

Supplemental Box Relating to Sequence Listing	
Continuation of Box No. I, item 2:	
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necess invention, this report was established on the basis of:	sary to the claim
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
on paper	
in electronic form	
c. time of filing/furnishing	
contained in the international application as filed	
filed together with the international application in electronic form	
furnished subsequently to this Authority for the purposes of search and/or examination received by this Authority as an amendment on the Nov. 2004	
received by this Authority as an amendment on 19.Nov.2004	•
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating there or furnished, the required statements that the information in the subsequent or additional copies is identical to application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
3. Additional comments:	
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	1
item 4 in Box No.I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, ma	ni ha madhi I
perseded."	y ve markea
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